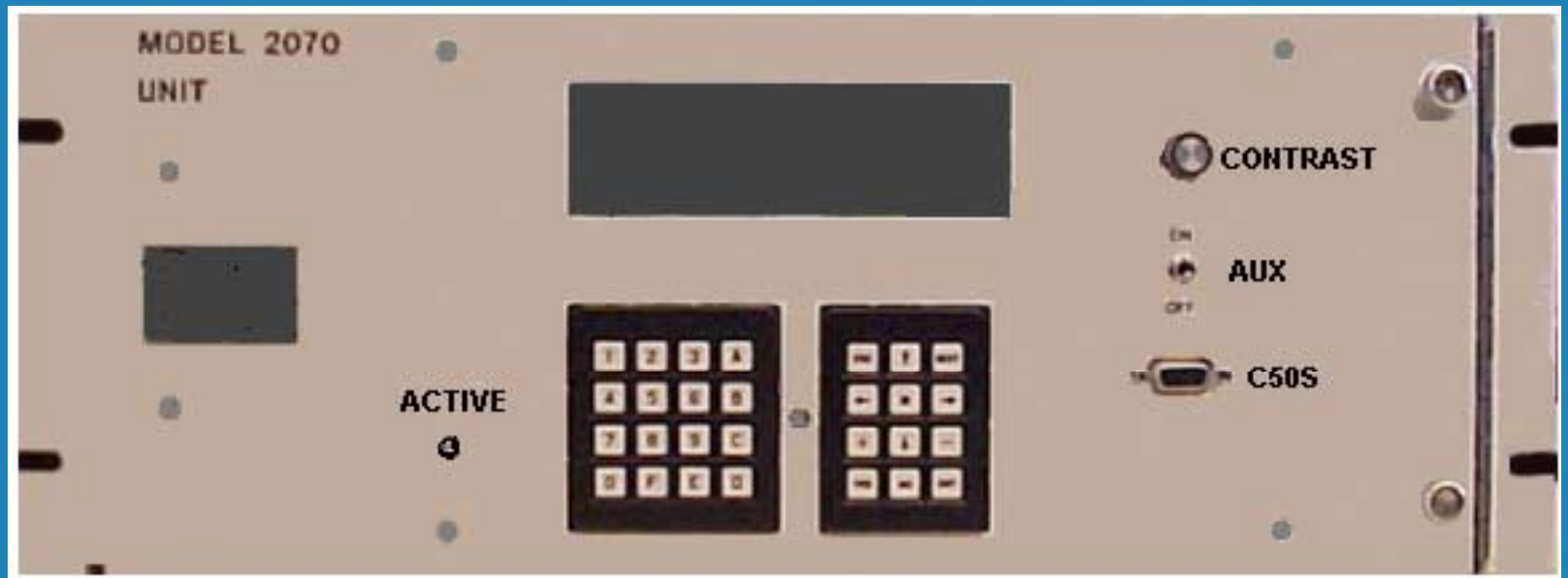


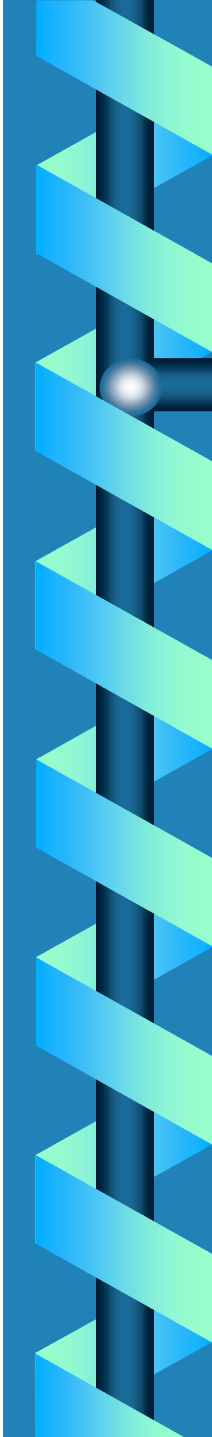


The 2070L ATC

Signals Management Section

THE 2070L ATC





NCDOT REQUIREMENTS FOR APPROVAL

- * Must meet Caltrans' 1999 Transportation Electrical Equipment Specification (TEES)
- * Must demonstrate ability to run Oasis (NCDOT statewide traffic signal application software).



What does the "L" indicate?

- ✧ 2070 = Standard 2070 chassis with VME (versa module Europe) bus.
 - VME is used in demanding applications like robotic applications.
- ✧ 2070L = Standard 2070 chassis without VME bus.
 - L = LITE
 - NCDOT STANDARD



5 Versions of the 2070

- * 2070 - Full unit mated to 170 cabinet family.
- * 2070N - Full unit mated to TS1 cab. family.
- * 2070L - LITE unit mated to 170 cab. family.
 - Standard used by NCDOT.
- * 2070LC - LITE unit mated to ITS & TS2 family.
- * 2070LCN - LITE unit mated to TS1 cab. family.



The Purpose of Switching to the 2070 Platform

* Open Architecture Design

- Allows Use of third party application software.
 - Statewide software license
- Allows controller to be used in other applications besides standard traffic signal control.



The Purpose of Switching to the 2070 Platform

- ✧ Operates as a general purpose computer.
 - Field hardened for harsh environment.
 - OS9 operating system (Microware)
- ✧ Like a PC, multiple applications stored in FLASH memory.
- ✧ Application software upgrades by downloading from PC.
 - » No more PROM changes



The Purpose of Switching to the 2070 Platform

- ✧ Standard Hardware defined by Caltrans.
 - 2070L Chassis
 - CPU Module - 1B
 - Field I/O Module - 2A
 - Front Panel - 3B (includes 8X40 LCD display)
 - Power Supply - 4A (10 amp)
 - Communication Module - 7A (RS232)
- ✧ All Modules are interchangeable between manufacturers.



The Purpose of Switching to the 2070 Platform

- ✧ Enables NCDOT to have one, standard, traffic signal control software.
 - Software specified to have all necessary tools to handle even the most complex designs.
 - Enables designers to be more efficient.
 - Enables signal technicians to be more efficient.



Statewide Traffic Signal Application Software

- ✧ Econolite OASIS (formerly ASIG Oasis)
 - 10 year agreement
 - Free bug repair upgrades
 - Recurring vendor-provided training.



Oasis Features

- * 16 Phase Capability
- * 16 Overlaps
- * Programmable Inputs
- * Programmable Outputs
- * Supports up to 10 Standard Preemptor Sequences
- * 200 Event Scheduler
- * 64 Coordination Plans
- * 12 Sequences
- * 4 Timing Sets
- * User definable Custom programming through LOGIC PROCESSOR.



2070 = Efficiency

✧ Standard Hardware

- No field surprises.

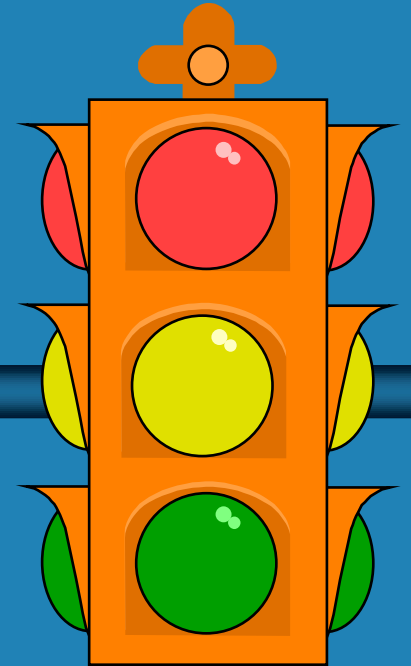
✧ Open Architecture

- Multiple applications performed by one box.

✧ Statewide Traffic Signal Control Software

- No field surprises

Questions?



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